FOUNDRY
TRADE JOURNAL

17-19 JOHN ADAM STREET, LONDON W.C. 2

Index to Volume 121

July to December, 1966

A

Accident Statistics, 437
Alloy Developments in the US, 283
American Letter, 62, 126, 259, 281, 325, 354, 423, 492, 560, 655, 693, 841
Analysis, Methods of, 729
Application of Refractory Stucco in Lost-wax Shell Moulding, 163
Apprentices, Award Scheme for, 251
Aquacast Process for casting Non-ferrous Metals, 593
Association of Bronze and Brass Founders, Notes, 297, 830
Association of Light Alloy Refiners & Smelters, Dinner, 770
Australian Association of Foundry Institutes, Fourth National Convention, 306, 550
Automatic dispensing of Silicon Briquettes, 485
Automation in Process Industries, 124
Automotive Patterns (Precision Equipment), Limited acquired by Stone-Platt Industries, Limited, 36
Avo, Limited's Recruiting Drive, 524
Ayrshire Foundry Training Group, 575

B

Beilby Medal and Prize, 550
Better Approach, 141
Binders, Properties of Cold-setting and Non-baking, and their Application in the Steel Foundry, 95
Birmingham Metallurgical Association, 297
Book Reviews:—
Aluminium Bronzes, 457
Basic Industrial Electricity, 100
Black Country Iron Industry—a Technical History, 55
Fischer, J. C. and His Diary of Industrial England 1814–1851, 21
Konstruieren mit Gusswerkstoffen, 349
Lexicon of Detergents, Cosmetics and Toiletries, 196
Machine Tool Maintenance, 196
Manuale Di Fonderia d'Alluminio, 196
Manual of Maintenance Engineering, 21, 350, 389
Mechanical Behaviour of Materials, 802
Metals for Engineering Craftsmen, 516
Modern Techniques in Metallography, 349
Physical Chemistry for Metallurgists, 100
Process Simulation and Control in Iron- and Steel-making, 802
Role of Microstructure in Metals, 693
Rolling-mill Rolls, 427
Ryland's Directory, 1966–67, vol. 1, 196
Steel Foundry Costing, 21
Transactions of the Manchester Association of Engineers. Session 1964–65.
Typical Microstructures of Cast Metals, 349
Britannia Iron & Steel Works, Long-Service Presentations 2
British Association of Corrosion Engineers, Revised Constitution of, 300
British Blast-Furnace Production in the March Quarter, 1966, 203, June Quarter, 353
B.B.C. "Science Fair"—Moisture in Sand, 176
British Cast Iron Research Association, 46th Annual General Meeting, 653, Luncheon, 606
British Consortium wins Indian Contract, 26
British Die-casting Society, 449, Inaugural Meeting, 645
British Equipment at Brno Fair, 142, 472
British Industrial Exhibition in Mexico, 528
British Iron & Steel Federation, Appointments, 672
British Iron & Steel Research Association, Conference, 685
British Non-ferrous Metals Research Association, Annual Report, 97; Metal Finishing Researches, 404; Presidential Address, 278
British Occupational Hygiene Society, Conference on Hazards in Foundries, 170
British Pavilion—Bangkok Fair, 357
British Products, Publicizing in Japan, 279
British Safety Council, Poster, 652
British Sculpture by Air-letter, 336
British Standards Institute, 230, 396; Fatigue Testing, 272; Manganese in Iron and Steel, 429; New Building; 616; New Standards, 636
British Steel Castings Research Association, Annual Report, 81, 150; Conference, 11; Dinner, 574; Luncheon, 606; News, 269; "Visitors", 524
British Steel Founders Association, Safety Posters, 108, 242, 537, 830
British Trade Centre in New York, 142
British Welding Research Association, Danes Visit, 627; Visit to, 22
Brown, John, Group in Moscow Fair, 124
Bulgarian Foundry Technology, 370
Bureau International de la Récupération, Annual Congress, 14, Autumn Conference, 651
Business Prospects, 35
Buyers' Association for Industry, Plans for New, 525

C

Canadian Trade Fair, 297
CO_2 Moulding Process in Steelfounding, Production of the, 473
Carbon-14 Dating of Iron, 793
Carbon from Natural-gas, 751
Careers Information Centre at "Engineers' Day" Exhibition, 667
Casting, Non-stop from Ore to, 623
Castings in the Export Market, 36
Cast Iron, Damping Capacity of, 541
Cast Iron, Melting with Natural-gas, 579

Catalogues Received, 261, 801
Catton & Company, Limited "Open Days", 20
Census of Production, 490
Century of Service, 671
Ceramic Shells, Standardization of Methods of Determining Permeability and Strength of, 724
Charleroi Technical Exhibition, 277
Chatwins, Limited, "Launching" a Solid-fuel Heater, 136
Chemical Cleaning Awards, 528
China-clay Industry, Royal visit to, 36
Cippenham Casting Company, Limited Plant Developments in Scotland, 170
Cleaning and Fettling of Castings, Developments in, 311
Coal-hole Covers—Folk-art under-foot, 790
Cohen, George 600 Group, Limited Acquisition, 577
Coking Industry Educational Trust, 524
Commercial Motor Show, 357
Committee for Steel Industry, 506
"Compendium" on Foundry Sands, 272
Confederation of British Industry, New President, 438

Conferences and Congresses:—
Australian Association of Foundry Institutes, Fourth National Convention, 306, 550
British Occupational Hygiene Society, 170
British Steel Castings Research Association, 11
Bureau International de la Récupération, 14, 651
Copper Development Association, 45, 118
Institute of British Foundrymen, (Scarborough), 37, 183
International Electro-heat, (1968), 525
International Foundry, 1966, (India), 154, 208, 360, 517, 771
International Foundry (Warsaw), 677
International Shellmoulding (Hamburg), 606
Non-destructive Testing, 142, 405, 551, 617, 710
Pressure-die-casters' (East Germany), 586
Society of Furnace Builders', 681
Speciality Cast Products, 555
Continental Opinion, 705
Copper-alloy Castings, Quality Requirements of, 779
Copper Development Association, Customer/Founder Conference, 45, 118
Copper in Heavy-section Nodular-iron Castings, Effect of, 607
Coremaking Methods Course, 604
Core Production, Mechanized, 741
Council of Ironfoundry Associations, News, 231

Correspondence:—
Comparative Salaries, 208, 327
Economic Production of Ductile Iron, 792
"Founders in India", 208
Furnaces and Melting Techniques for Spheroidal-Graphite Iron Production, 108
National Foundry College, 521
"Straw Bosses", 655
Threat from under the Sea, 728
UK Foundry Industry—Comment from "Down Under", 208
Courses in Foundry Technology, 153, 242
Court Works, Limited's expansion, 524
Crisis and Exports, 207
Cupola in Miniature, 515

D

Damping Capacity of Cast Iron, 541
Dating of Iron, Carbon-14, 793
Degassing at Appleby-Frodingham Steel Company, 182
Delhi "Dairy", 771
Delta Metal Group Training School, 528
Derbyshire Leadmining Festivities featured on Television, 598
Developments in Preparation and Handling of Sand, 637
Die-casting Plants, Melting and Handling Zinc and Aluminium Alloys in Japanese, 823
Die-making Techniques, Modern, 652
Dinners:—
Association of Light Alloy Refiners & Smelters, 770
Crockett Lowe, Limited, 493
British Steel Castings Research Association, 574
Institute of British Foundrymen, East Anglia, 491
Institute of Production Engineers, 759
Joint Iron Council, 625
Non-ferrous Club, 506
Ductile-iron Castings, Guide to Specifications for, 673
Ductile Iron Society of Canada, Annual Meeting, 14

E

Education Gap, Bridging the, 740
Education in India, Foundry, 785
Engineering Industries Association Exhibition, 520
Engineering Industry Training Board, Information, 282
"Engineers' Day" Exhibition, 667
European Coal and Steel Community, Record Steel Output, 2
European Free Trade Association, Free Trade in 1967, 818
European Industrial Research Management Association launch Research Management Studies, 822
Eutectic-Castolin 60th Anniversary, 682
Excelsior Motor Company, Limited acquire P.M.G. Thorpe, Limited, 681

Exhibitions:—
British Industrial in Mexico, 528
Brno Fair, 142, 472
Canadian Trade, 297
Charleroi Technical Exhibition, 277
Commercial Motor Show, 357
Engineering Industries Association, 520
"Engineers' Day", 667
Fluid Power International, 310
German Foundry, 357
International Motor Show, 538
Industrial Training, 429
Leipzig Autumn Fair, 330, Spring Fair, 814
Metz International Trade Fair, 396
National Die-casting Exposition and Congress, U.S.A., 606
Non-Destructive Testing Society of Great Britain, 142, 405, 551, 617, 710
Quality and Reliability Year, 672
Royal Netherlands Industries Fair, 53
"Shapes for the Future", 430
Staffordshire Iron and Steel Institute Centenary, 74
Export of Brass Swarf, 389
Export Opportunities, 438

F

Factory Report for 1965, 459
Fanfare for Britain, 175
Farnborough, Castings at, 360
Farnborough, 1966, 327
Fifty-hour week for Students, 491
Films for Hire, 330
Film Review, Engineers in Steel, 490
Film Show, Furnace, 636
Fire Prevention Survey, 524
Flow-pump uses Castings, 491
Fluid Power International Exhibition, 310
Focus on Scarborough, 37, 183
"Fork-lift" Foundry, 143
Foundry Apprentice Competition, 216, Change in Rules, 598
Foundry Device wins Trophy, 251

Foundry Education in India, 785
Foundry for Western Australia, 182
Foundry Industry Training, 837
Foundry in Law, XII, 643, XIV, 829
Foundry Operator Training, 442
Foundry Sands Compendium, 514
Foundry Statistics:—
Aluminium Castings, 2, 153, 578, 807
Iron Castings, 807
Magnesium, 355
Non-ferrous, 232, 355, 442, 578, 807
Steel Castings, 232, 355, 449, 578, 807
Foundry Technical Group, Conference & Dinner, 472
Foundry Trades' Equipment and Supplies Association Annual Meeting, 621
Foundry Training, Ayrshire Group, 575
Foundry Training in the South East, 649
Fuel for Thought, 107
Furnace Film Show, 636

G

Gas, Prospects for, 686
German Foundry Exhibition, 357
Gibbons Foundry (Fareham), Limited, Developments at, 92
Gibbons Brothers, Limited, Foundry to Close, 616
Golden Shoe Club Awards, 851
Good Management and Good Technology, 739
Govan Engineering Training Group, Growth of, 426
G.K.N. Screws & Fasteners, Limited, Engineering & Building Centre, 117
Guide to Dealings on the London Metal Exchange, 442

H

Handling of Sand, Developments in Preparation and, 637
Honours-degree in Foundry Technology, 306
Hoogoven's Higher Output, 27
Horsehay Company, Limited, "New Lease of Life", 657
House Organs, 262, 350, 807
Hydraulic Engineering, Standards for, 452

I

Impact of Non-ferrous Metals on Other Industries, 278
Implications of Membership, 271
Imports and Exports of Iron and Steel in February, 130; March, 428
Import Duties on Cars into Australia, 182
India, Foundry Education in, 785
Indian Founding, 769
Indian Newsletter, 258, 279, 326, 416, 494, 842
Indian Steelfounders face Crisis, 692
Industrial Training Act, Registration of Trainees, 681
Industrial Training Exhibition, 429
Industrial Training Grants, 471
Inspection Machines, £45,000 Order for, 830
Institute of British Foundrymen:—
Annual Conference (Scarborough), 37, 183
Golf Society, 2, 310, 493
Members' Appointments, 758
National Works Visits Days, (Tyneside), 229, 379, 411, 443, 568, 574, 627
Technical Council, 252

Notes from the Branches:—
Australia, 427
Birmingham, 23
Chesterfield, 822
Coventry, 794
East Anglia, 242, 491, 682
East Lancashire, 796
East Midlands, 797
Lancashire, 796
London, 399, 795
Northampton, 121, 565, 796
Sheffield, 565
Scottish, 794
West Riding of Yorkshire, 23
Institute of Materials Handling, Courses, 194
Institute of Metals, New Officers, 540
Institution of Production Engineers, Awards, 300; Dinner, 759
Institute of Vitreous Enamellers, Annual General Meeting, 216, 686
Institute of Welding, Annual General Meeting, 652
Instructor Selection and Training, 251
International Apprentice Competition, 506
International Electro-heat Congress, (1968), 525
International Foundry Congress, 1966, (India). 154, 208, 360, 517, 771
International Foundry Congress (Warsaw), 677
International Motor Show, Founders at, 538
International Shellmoulding Meeting in Hamburg, 606
Investment Casting, Effect of Temperature on Permeability and Strength of Ethyl-silicate-bonded Shell Moulds for, 719
Investment Casting, Standardization of Methods of Determining Permeability and Strength of Ceramic Shells, 724
Investment-castings, Production of Large, 589
Investment-cast Nozzle Ring for a Gas-Turbine, 15
Investment Grants, 818
Investment Materials with a Phosphate-type Bond for Block Moulds, Properties and Uses of, 587
Iron Castings Production, 426
Iron and Steel Industry Prizes, 251
Iron & Steel Nationalization, 1
Iron and Steel Institute; Australian Meeting, 74; Centenary Celebrations, 58, 74; Council Changes, 170; Group meetings, 528; New President, 818; Programme, 55
Iron & Steel Production, 182
Iron and Steel Scrap, Open General Licence for, 534

J

Japanese Competition, Employees Boost Output to Beat, 615
Japanese Die-casting Plants, Melting and Handling Zinc and Aluminium Alloys in, 823
Japanese Foundry Industry, 296
Joint Iron Council, Dinner, 625, Executive Committee Report, 752
Jones, John & Sons, Limited, Visit to, 707

K

Kestner acquired by APV Holdings, Limited, 242
King, Geo. W., Limited Rationalization, 615

L

Lake, Thomas, & Company, Limited, Story of, 439
Law Cases, 330, 347, 644
Leader:—
Accident Statistics, 437
Better Approach, 141
Birth of a Society, 635
Business Prospects, 35
Century of Service, 671
Continental Opinion, 705
Corebinders, 73
Crisis and Exports, 207
Fanfare for Britain, 175
Fuel for Thought, 107
Good Management and Good Technology, 739
Implications of Membership, 271
Indian Founding, 769

Industrial Training Grants, 471
Iron & Steel Nationalization, 1
Market Development—Whose Responsibility?, 305
National Foundry College, 605
National Society of Master Patternmakers Globe-trotters, 369
Prices and Incomes Standstill, 241
Quality and Reliability, 817
Safety Posters, 505
Step in the Right Direction?, 573
Successes in "Communications", 539
Threat from Under the Sea, 605
What the Eye doesn't see. . . , 403
Whither Copper?, 335
Leadmining Festivities featured on Television, Derbyshire, 598
Lectern, An Early Cast-iron, 821
Lee, William, & Sons (Malleable), Limited, visit to, 749
Leipzig Autumn Fair, 330, Spring Fair, 814
Light-alloy techniques for the Foundry Industry, 243
Light Castings Production at Parkfield Foundries, New Facilities for, 307
Lloyd, F. H. & Company, Limited bid for N. Hingley & Sons (Netherton), Limited, 108
Lloyd Group of Companies Prize-distribution, 757
London Metallurgical Society Meeting, 256, 578
North British Steel Foundry, Limited, Long Service at, 252
Lumbys, Limited works to Close, 758

M

MacDonald, J. Ramsay, Cast Memorial to, 698
Machine-tool Orders and Deliveries, 117, 300, 491, 598
Machine-tool Technical Committee, 586
Management Centre, 652
Man and Machine, 426
Materials and Environmental Testing, 370
Market Development, Exercise in, 327
Marketing in USA, Action on, 730
Measurement of Temperature, Lecture on, 525
Mechanical Engineering Equipment, 490
Mechanized Core Production, 741
Medal for British Apprentice Moulder, 70
Melting Techniques for the Light-alloy Foundry Industry, 243
Memorial to J. Ramsay MacDonald, 698
Metal-spraying of Moulds and Cores, 252
Metallurgists, Employment of, 450
Metric System, Use of, 26
Metz International Trade Fair, 396
Mirrlees Watson Company, Limited Consolidation, 627
Mission to Latin America by Steel Works Plant Association, 336, 729
"Mispent" Metallurgists, 450
Modern Furnaces & Stoves, Limited, 689
Moisture in Sand—in BBC "Science Fair", 176
Moulding Sand, Movements of during Compaction, 836
Mysore Foundry Industry, 279

N

National Association of Malleable Ironfounders, News, 108, 297, 452, 838
National Coal Board and District-heating Scheme, 74
National Die-casting Exposition and Congress, USA, 606
National Foundry Apprentice Competition, 404
National Foundry College, Industry's Bid to Save, 521, 605
National Society of Master Patternmakers, Globetrotters, 369, Trip to Holland, 751
Natural-gas Development, 578
Natural-gas, Facts about, 396
Natural-gas for Melting Cast Iron, 579
Newman Hender Group Board Changes, 336, New Training School, 799
News from France, 354, 491
Nodular-graphite Cast Iron Based on use of an Acid Cupola and Electric Furnace, Method for Economic Production of, 273
Nodular-iron Castings, Effect of Copper in Heavy-section, 607
Nodular-irons, Properties of Pearlitic and Annealed Ferritic Alloyed with Copper, 507
Noise in Ironfoundries, 192
Non-destructive Testing Conference and Exhibition, 142, 405, 551, 617, 710
Non-ferrous Club, Dinner, 506
Non-ferrous Metals, Aquacast Process for Casting, 593
Non-ferrous Metals Industry, Structure of, 506
Non-ferrous Metals in Marine Environment, 280
Non-ferrous Metals, Developments in Melting and Casting (Edward Williams Lecture), 109
Notes from Australia, 223

O

Oakengates, Opening of New Melting and Mechanized Plant, 819
Oil Award Scheme, 442
Open General Licence for Scrap extended, 736
Ore to Casting, Non-stop from, 623
Overseas Travel Award Scheme, 389

P

Parkfield Foundries (Tees-side), Limited, New Facilities for Light Castings Production, 307
Patents, 139, 191, 487, 660, 760, 844
Patternmaking, Training in, 683
Pig-iron and Steel Production; April, 200; May, 260; June, 422; July, 488; August, 658
Phosphate-type Bond for Block Moulds, Properties and Uses of an Investment Material with, 587
Pisek, Prof. F., 80th Birthday Celebrations, 257
Polish Foundry Technology, 300, 740
Portuguese Foundry Project, 514
Post-graduate Course in Science of Founding, 74
Potterton, Thomas, Limited Expansion, 142
Precision Casting of Metals, Courses on, 616
Precision-investment Casting, Induction Melting for, 453
Preparation and Handling of Sand, Developments in, 637
Precision Engineering Research Association Elections, 2
Pressure-die-casters' Conference (East Germany), 586
Prices and Income Act, 1966, 377
Prices and Incomes Standstill, 241
Publications Received, 26, 93, 227, 351, 489, 527, 628, 659, 800
Purchasing Officers Association, "Minibitions" Awards, 540; Council of Ironfoundry Associations at, 586

Q

Qualcast, Limited, Management Change, 170
Quality and Reliability, 817
Quality and Reliability Year Exhibition, 672
Quality—its Creation and Control, 272
Quality Requirements of Copper-alloy Castings, 779

R

Respiratory Performance of Steelfoundry Employees, Survey of, 177
Royal Netherlands Industrial Fair, Foundry Street, 53
Russell, S. & Sons, Limited, Changes at, 74
"Russian Castings Production", 427, 441, 784
Russian Delegation visit UK, 75

S

Safety, Design for, 729
Safety Posters, 505
Sand Control, Courses in, 430
Sand, Developments in the Preparation and Handling of, 637
Schoolboys cast Kidney Pump, 216
Scrap Analysis at Potterton's Foundry, 390
Scrap Extended, Open General Licence for, 736
Scrap Licensing, 236
Scrap—Specification and Procurement, 522
Seal of Merit, 838
"Shapes for the Future" Exhibition, 430
Shell-moulding extended to Heavy Castings, 706
Shipham & Company, Limited, Large Castings from, 792
Shorter Apprencticeship ?, 182
Silicon Briquettes, Automatic dispensing of, 485
Society, Birth of a, 635
Society of Furnace Builders' Conference, 681
Speciality Cast Products, Two-day Seminar on, 555
Specifications for Ductile-iron Castings, Guide to, 673
Spheroidal-graphite Iron for Boiler-sections, 223
Spheroidal-graphite Iron Hinge, 231
Stanton and Staveley, Limited, Training at, 657
Steam Engines for the "Roof of the World", 122
Steel Castings Association, 636
Steel Production in July, 301; August, 451; September, 578; October, 682; November, 854
Steel Works Plant Association Mission to Latin America, 336, 729
Step in the Right Direction ?, 573
Stone-Platt Industries Group receive Queen's Award, 514
Successes in "Communications", 539
Supervisors Safety Training Course, 176
Suppliers to the Industry
Buckland Sand & Silica Company, Limited, 253
Modern Furnaces & Stoves, Limited, 689
Workington Iron & Steel Company, Limited, 417

Subject Index of Items Featured under "Plant Supplies and Services"

Agents for:
Coatings, Testing of, 393
Instrumentation Distributors, 25
Level-control Equipment, 129
Refractory Licence Agreement, 199

Appointments:
Adcock & Shipley (Sales) Limited, 700
AEI—Birlec, Limited, 199
Ajax Magnethermic (UK), Limited, 530
Binks-Bullows, Limited, 199
Black & Decker, Limited, 57
British Foundry Units, Limited, 425
Causeway Steel Products, Limited, 57
Climax Molybdenum Development Group, 425
Guest, Keen and Nettlefolds, Limited, 91
Hayden-Nilos, Limited, 425
MacFrac, Limited, 57
Vereeniging Brick & Tile Company, Limited, 530
Wolf Electric Tools, Limited, 57

Change of Address:
Albion Pulverizing Company, Limited, 495
British Aluminium Company, Limited, 559
Consolidated Pneumatic Tool Company, Limited, 57
Elco Furnaces, Limited, 805
Elliott-Automation, Limited, 295
Erfurt Machinery, Limited, 393
Evershead & Vignoles, Limited, 393
Guthrie, Adams (Heat-Treatment), Limited, 495, 700
Kent Controls, Limited, 700
Paterson Hughes Engineering Company, Limited, 324

Changes in name:
Borden Chemical Company (UK), Limited, 464

Communications:
Telephone Amplifier, 129

Company re-organization:
Air Control Company, Limited, 57
Black & Decker, Limited, 25
Durran, James & Sons, Limited, 263
Foxboro-Yoxall, Limited, 805
Fry's Metals, Limited, 840
G.W.B. Furnaces, Limited, 840
Heden, Limited, 225, 558
Union Carbide, Limited, 700
Vacuum Industrial Applications, Limited, 263
Western Gear Corporation, 263

Conveying and Transporting Plant:
Conveying Systems, Automatic, 840
Feeder, 24
Pneumatic Feeders, 324

Die-casting Equipment and Ancillaries:
Die-casting Machine, Hot-chamber, 805
Die-casting Machine, Low-pressure, 464
Stripping Solution, 91

Dust- and Fume-extraction, Collection Equipment and Space-heating:
Air-heater, 647
Blast-cleaning Equipment, 596
Dust-collecting Unit, 839
Dust-collection Unit, 198
Dust-collection Unit, 648
Dust-collection when Sack-emptying, 495
Dust-collector, 225
Dust Extraction, Filtering, etc., Equipment, 199
Dust Filter Bags, 56
Calor-Gas Equipment, 530
Dust-separators, 647
Fans, 559
Filter, Fabric, 648
Heater Portable, 391
Hot-air Curtain, 626
Space-heater, 804
Ventilation Systems, 803
Ventilators, Roof, 197

Electrical Fittings and Equipment:
Motors, Electric, 700

Fettling Plant and Materials:
Bending Machine, 199
Blast-cleaning Room, 804
Buffs, Polishing, 464
Fans, Centrifugal, 294
Grinder, Pneumatic right-angle, 25
Grinders, Stand, 128
Marker for Castings, 648
Nibs, Grinding, 91
Polishing and Burnishing, Vibratory, 197
Saw, Circular, 294
Saw, Circular, 647
Scribing Tool, 199
Sealing Impregnant, 128
Sealing Process for Metal, 295
Servo Control Hydraulic, 25
Tilghman's/Wheelabrator Agreement, 197
Tumbling, Abrasive for, 392

Lifting, Loading, Trucking and Storage Plant:
Crane, Travelling, 56
Cranes, Radio-control for, 648
Drum-tilting Unit, 804
Fork-lift Truck, 558
Fork-lift Truck, 804
Fork-lift Truck, Electric, 25
Industrial Trailer, 24
Power Units, Mobile, 57
Storage System, 358
Trailer, Five Wheel, 129
Trailer, Heavy, 295
Vibration Inducers, 128
Vibrator Motors, 391
Vibrators, 129

Metals and Alloys:
Copper, Secondary, 197
Ferro-alloys, 128
Zinc Alloy for Gravity-die-casting, 358

Melting, Heating and Heat-treatment Plant:
Aluminium Melting and Holding, 463
Burner, 463
Burners, Gas and Oil, 495
Burners, Natural-gas Automatic, 529
Calor-gas Equipment, 530
Conveyors, Hanger-bearing Assemblies for, 803
Fans, Axile-flow, 57
Fans, Centrifugal, 294
Flue-cleaning of Oil-fired Plant, 530
Furnace Servicing, 24
Fuel Additive, 56
Gas Supplies, 626
Gas-using Equipment, 463
Granular Materials, Heating of, 463
Heater, Blast, 198
Heating & Cooling, Controlled, 391
Molten Metal, Bulk Supplies of, 57
Natural Gas in Furnaces, 529
Refining Process, Electroslag, 199
Swarf-melter, etc., Rotary, 463
Temperature Recorder, 198
Tubes, Radiant, 463

Moulding and Coremaking Equipment and Materials:
Barrell-transporter and -dispenser, 530
Bending Machine, Core Irons, 425
Carbon Dioxide, 198
Carbon-dioxide, Refrigeration Unit for, 839
Ceramics, Foundry, 263
Coreblowing Machine, Hot-box, 293
Coremaker, Hot-box, 391
Fluid-sand Process, 648
Furfural Alcohol, 359
Heater, Drum, 197
Infra-red Heaters, 803
Hardener for Silicate-bonded Sand, 840
Moulding Machine, 323
Moulding Machines, 647
Mould Pusher-rams, 263
Plates, Core, 805
Release Agents, 56
Resin for Foundries, 161
Sand-mill, Continuous, 392
Sand-preparation Plant, 558
Sand-reclamation Systems, 647
Shell-closer and Gluing Unit, 596
Vacuum Assembly for Investment Moulds, 358
Vents, Corebox, 803
Vibration Inducers, 128
Vibrator Motors, 391
Vibrators, 56
Vibrators, 129
Wax Presses and Waxes—Investment Casting, 161

New Companies
American Air Filter (Great Britain), Limited, 199
A/S Martonair, 295
Beechcroft, J. S. (Foundry Supplies), Limited, 425
Hot Work, Limited, 24
Wolf Tools (Pty), Limited, 559
Youngman Fork Trucks, Limited, 700

New Premises
American Air Filters (Great Britain), Limited, 393
Davis, John & Son (Derby), Limited, 425
Foseco International, Limited, 529
Sterling Foundry Specialties, Limited, 391

Patterns and Patternmaking
Bandsaw, 803
Markers for Castings, 648
Metal-spray Gun, 129

Plating and Corrosion and Wear Protection
Copper Coating, 91
De-greasing Machine, 225
Inhibitors for Pickling Acids, 391
Pickling Inhibitors, 324

Pneumatic Equipment
Pneumatic Conveyor for Sand, 558
Pneumatic Systems, Fault Finding in, 129

Refractories and their Application
Dressing, Ladle, 425
Insulation, Furnace and Stove, 393
Refractory Insulating, 700

Safety and Protective Equipment
Boots, Safety, 393
Electric Trucks, Warning Light for, 199
Face-shield, 647
Fire-retardent Coating, 840
Flame-resistant Clothing, 129
Gloves, Fluorescent, 129
Limit Switch, 495

Services
Business Men going Abroad, Courses for, 559
Educational Seminars, 129
Experimental Research Department, 425
Fork-lift Hire, 295
Fork-truck Hire, 700
Furnace, Servicing, 24
Loaders for Hire, 161
Management Seminars, 91
Pneumatics, Courses on, 840
Refractory Service, 392
Trade Missions, Financing of, 495
Value-analysis Courses, 359
Value-analysis, Courses in, 805

Testing and Control
Automation Controls, 530
Carbon-dioxide, Refrigeration Unit for, 839
Charpy-notch Broaching Machine, 839
Chart Recorder, 324
Coatings, Testing of, 393
Coresand Specimens, Drying of, 91
Crack Detector, 24
Demagnetizing Unit, 129
Dye-penetrant Kit, 199
Electronic Instrumentation, 530
Ferrous Material, Sorting of, 392
Flaw-detector, Ultrasonic, 294
Flow-rate Meter, 295
Hardness Tester, 359
Inspection Device (Radio), 393
Level Controllers, 559
Magnifiers, Industrial, 25
Photo-electric Device, 425
Photo-electric Receivers, 840
Pressure Controls, 558
Process Timers, 225
Pyrometer, 198
Radio-control for Cranes, 648
Resin-sand Testing, 91
Sand-testing Equipment, 24
Counter, Sensing, 700
Shotblasted Surfaces, Checking Coatings on, 464
Silicon Determination, 293
Sound-level Meter, 393
Spectrochemical Analysis of Cast Iron, 224
Temperature Controllers, 25
Temperature Recording-Controller, 25
Thermocouple Wall Chart, 57
Vacuum Cleaner, 24
Weighbridges, 359
Vitreous Enamels, Additive for.

Welding
Fusewelder Torch, 57
Trolley for Gas Bottles, 57
Pumps for Solids and Slurries, 295
Welding Accessories, 648

T

Technical Progress in US Foundries, 217
Textile Machinery for Tanzania, 232
Telephone Kiosk, New, 142, 348
Thompson, John, Castings, Limited book £150,000 p.a. Order, 117
Threat from Under the Sea, 605
Tidal Cast Iron, 277
Tough Steels, Conference on, 685
Trade Mission to Turkey, 347
Training Centre, 26
Training Courses for Training Officers, 19
Training, Foundry, in the South-East, 649
Training in the Foundry Industry, 731
Training in Patternmaking, 683
Training Levy, 272
Training Levy/Grant Assessment, 449
Translation Services, 226, 328, 395, 429, 526

U

Unions Merging, Prospects of, 327
Uganda Delegation visit Tiverton, 370
US Founders discuss Recent Technology, 783
US Interest in British Equipment, 26

V

Vacuum Furnaces Shipped to Russia, 598
Vauxhall Motors, Limited, Quality Control at, 371

W

Wedge Penetration-test as an Indirect Method of Determining Tensile Strength, 3
Welding-plant Incorporates Casting, 644
Welworthy, Limited, New Research Facilities, 125, Extension to Weymouth, 336
Welsh Foundry Contract, 142
What the Eye doesn't see . . ., 403
Whither Copper ?, 335
Wishful Thinking, 90
Works Described:—
Gibbons Foundry (Fareham), Limited, 22
Haddon Group of Companies, 644
Hopyard Foundries, Limited, 143
Jones, John, & Sons, Limited, 707
Lake, Thomas, & Company, Limited, 439
Lee, William, & Sons (Malleable), Limited, 749
Owen Organisation Foundries, Limited, 819
Parkfield Foundries (Tees-side), Limited, 307
Vauxhall Motors, Limited, 371
Wellworthy, Limited, 125

Y

Youth at the Helm, 651

Z

Zambian Copper, Stockpiling of, 399
Zambian Minerals Output Up, 740
Zinc in US Cars, 2

Authors

Attenborough, P.,* 208
Austin, J. W.*, 521
Bailey, G. L., 109
Ballass, J. T., 280
Barkey, A. B., 587
Barton, R., 607
Carter, N., 607
Charlton, R. J., 593
Coates, R. B., 273
Cooley, E. H., 589
Dittrich, Dr. W., 719
Doelman, J., 724
Dolotov, G. P., 579
Gagg, E. A.*, 108
Georgetti, R. A., 280
Gilbert, G. N. J., 507
Gosling, E. B., 453
Halsey, G., Ph.D., 163
Henderson, H. E., 673
Hibbs, J. B., 311
Hockin, J., 593
Horsfield, G., 473
Jarman, D. C., 15
Jerome, E. R., 280
Johnson, P. A.*, 521
*Authors of *Correspondence* items
Karsay, S. I.*, 792
Kastell, R. H., 177
Keenan, D. A.*, 208
Knowelden, J., 177
Krings, Prof. W., 719
Lambert, P., 637
Leyshon, H. J., 273, 728*
Marienbakh, L. M., 579
Lord Meston, 377
Middleton, J. M., 95
Pidgeon, C. L., 3
Plénard, Elizabeth, 541
Proffit, H. J., 243
Robb, C. J., 277, 821
Roebuck, E., 337
Schofield, A., 15
Schofield, M., 122
Sjogren, G. O. H., 371
Smith, G. J., 790
Smith, R. S.*, 655
Starr, C., 450
Swinyard, G., 779
Sykes, H., 741
Whittemore, C. R., 283
Winkelman, J. C., 587
Yendall, J. E., 307

PRINTED BY THE CROYDON TIMES